ALL ROOFS 6/12 PITCH
12" SOFFITS
8" FASCIA
6" RAKES

HOUSE SQ. FT.

MAIN LEVEL:	1784 SQ. FT.
LOWER LEVEL FINISH:	1323 SQ. FT.
GARAGE:	670 SQ. FT.
COVERED DECK:	206 SQ. FT.

4740 NE Jamestown
Dr LEE'S SUMMIT, MO

4-26-21

Brandon Kalwei
Digitally signed by Brandon Kalwei
DN: CN=Brandon Kalwei, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2021.05.05 08:34:51-05'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

BY______________________

DATE____________________

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BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

ELECTRICAL SYSTEM CODE: SEC.2701
MECHANICAL SYSTEM CODE: SEC.2801
PLUMBING SYSTEM CODE: SEC.2901

PAGE
1

PLAN:
4-3-21
HAVEN 3.0

ELEVATIONS
GARAGE RIGHT

SCALE: 1/4" = 1'-0"

HAVEN 3.0

DRHI
Dave Richards Homebuilding, Inc.

PANAL SIDING FRONT RETURNS SIDES AND BACK, LP PRECISION PANEL SIDING 7/16" MUST BE INSTALLED WITH ITS LONG DIMISION ORIENTED VERTICALLY.

FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN. 1-1/2"

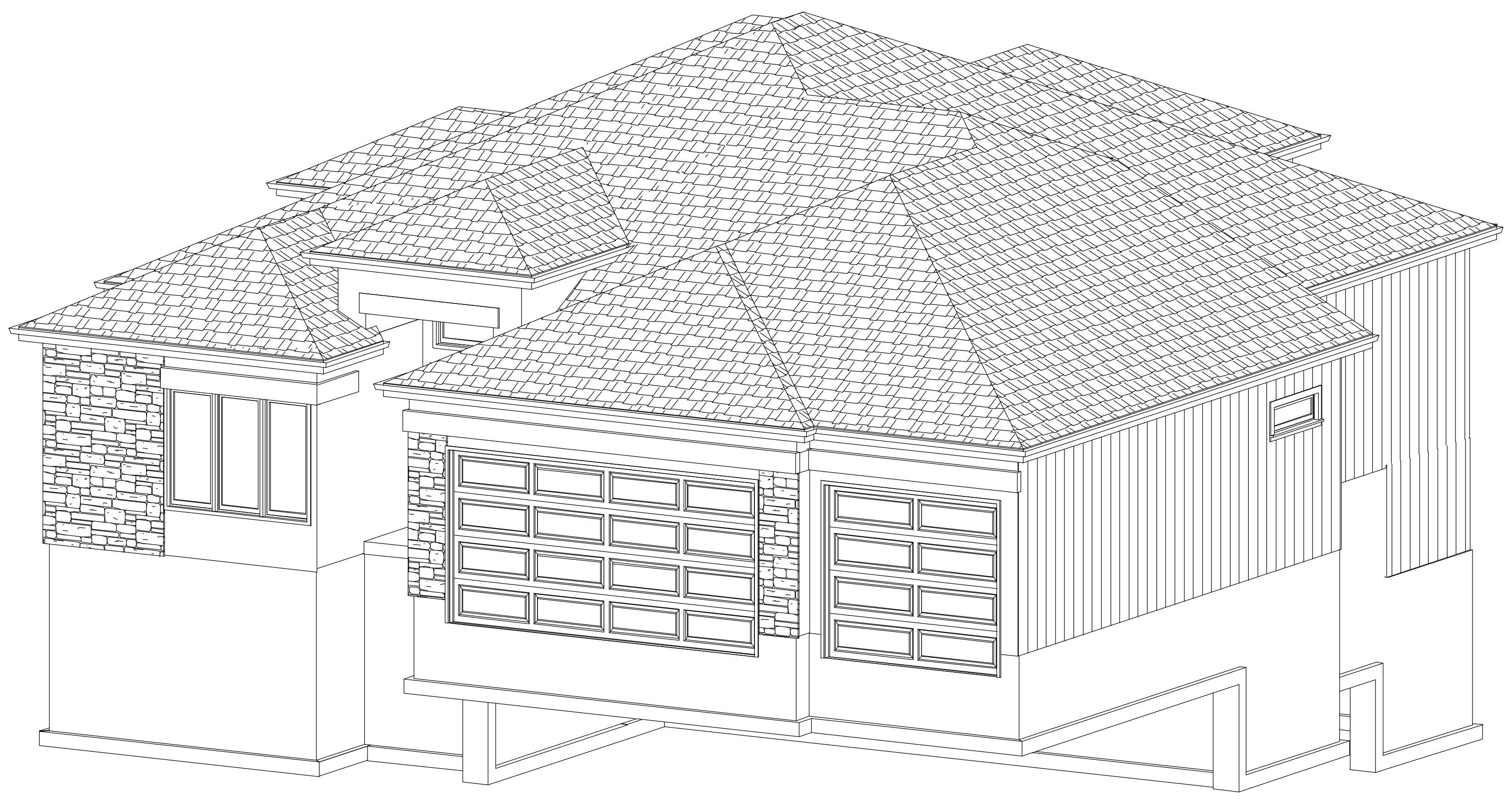
FASTENER MUST HAVE A MINIMUM HEAD DIAMETER OF 0.297 INCH, A MINIMUM SHAFT DIAMETER OF 0.113 INCH AND A MINIMUM LENGTH OF 2-1/2" INCHES

OSB 7/16" UNDER STUCCO AND STONE ON FRONT

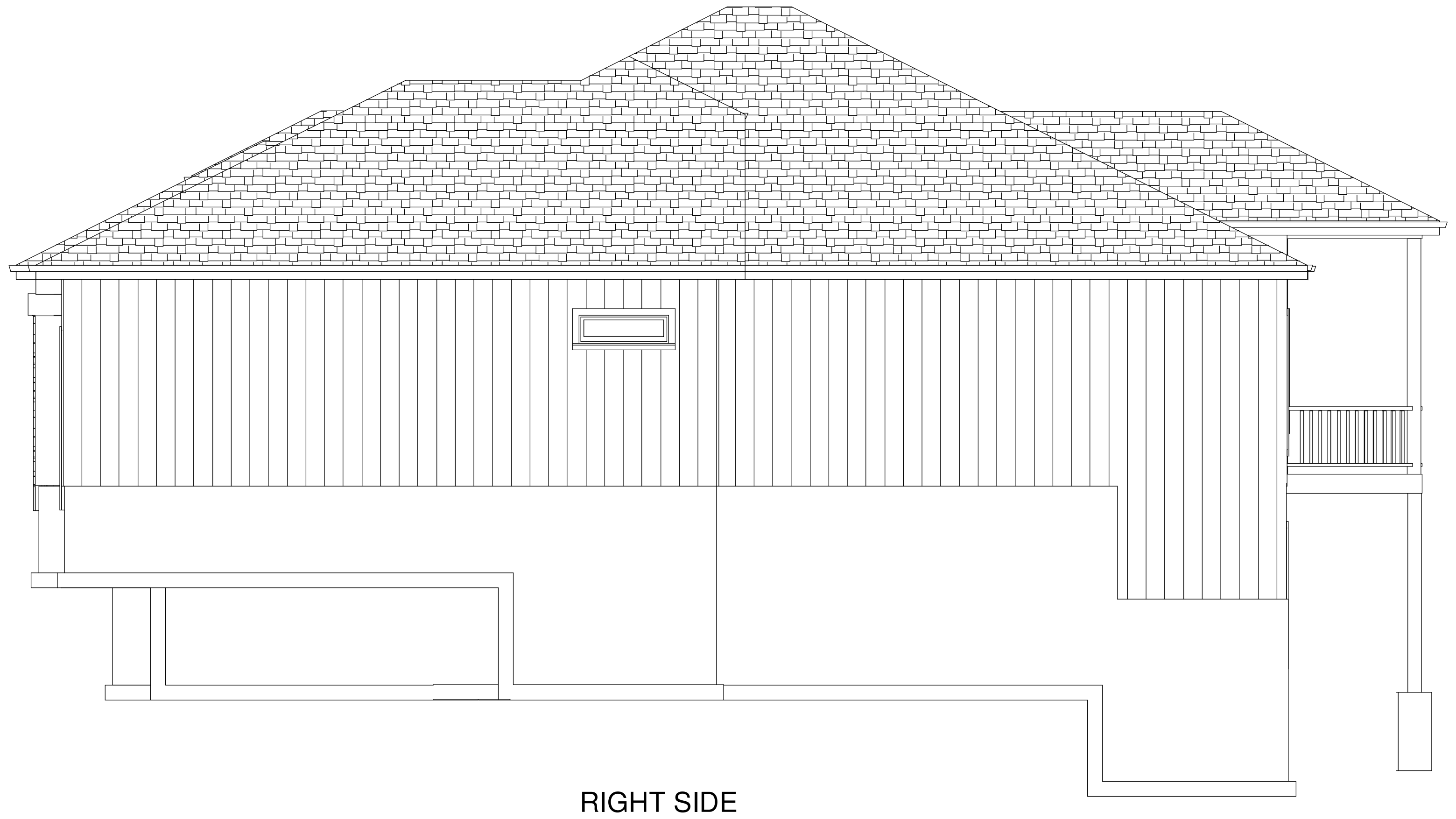
FASTENER SPACING (INCHES O.C.) 6" EDGES AND 12" IN THE FIELD

FASTER PENETRATION INTO STUD MIN. 1-1/2"

FASTENER MUST HAVE A MINIMUM HEAD DIAMETER OF 0.297 INCH, A MINIMUM SHAFT DIAMETER OF 0.113 INCH AND A MINIMUM LENGTH OF 2-1/2" INCHES



BACK



RIGHT SIDE

LEFT SIDE

4740 NE Jamestown
Dr LEE'S SUMMIT, MO

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PAGE
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PLAN:
4-3-21
HAVEN 3.0

ELEVATIONS
GARAGE RIGHT

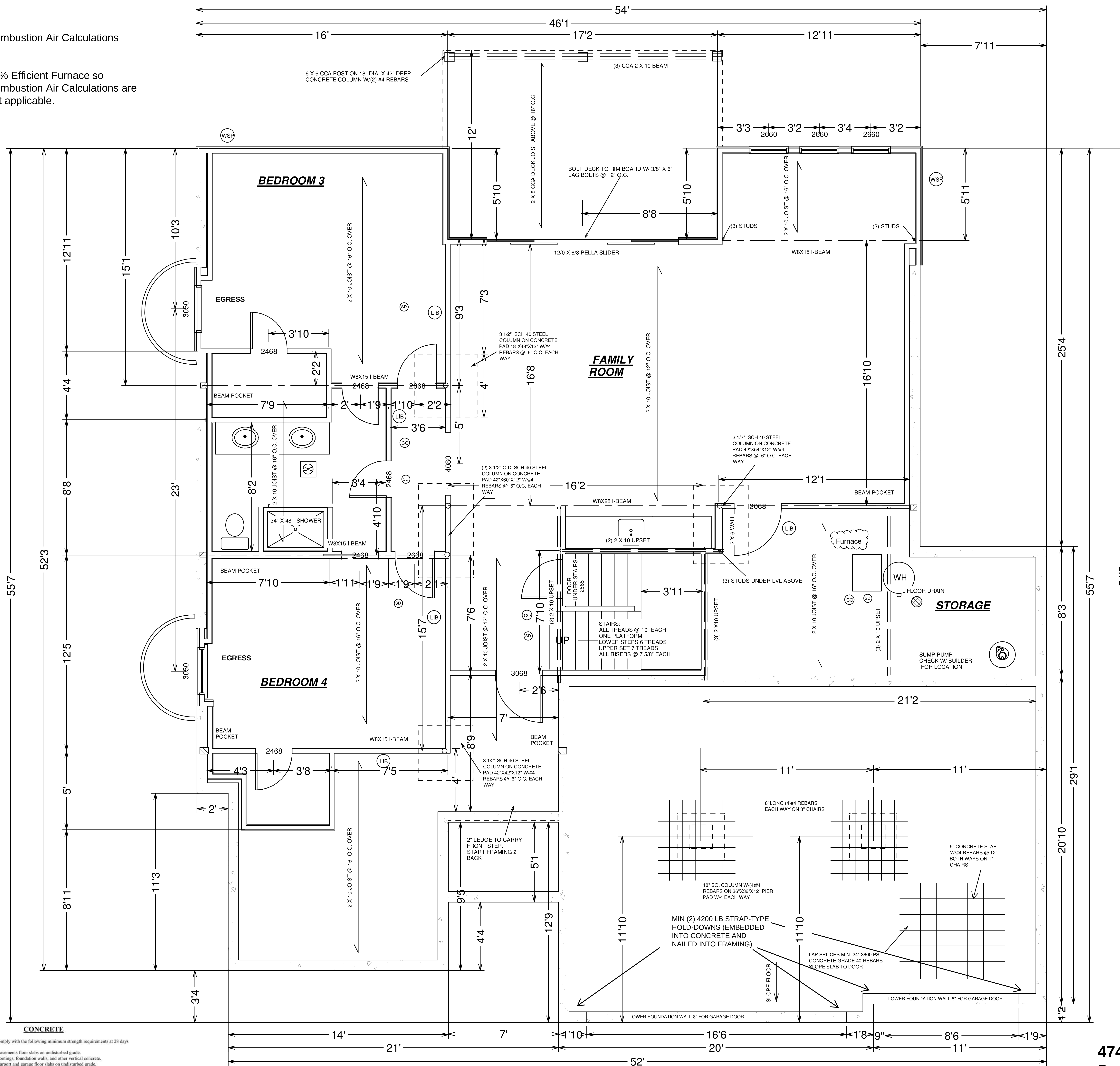
SCALE: 1/4" = 1'-0"

HAVEN
3.0

DRH
Dan Richards Homebuilding, Inc.

Combustion Air Calculations

92% Efficient Furnace so Combustion Air Calculations are not applicable.



1. 8" X 9'-0" CONCRETE WALLS W/5 #4 BARS HORIZONTAL AND #4 BARS VERTICAL @ 24" O.C. ON 16" X 8" CONCRETE FOOTING W/2 #4 BARS CONTINOUS.
2. WALK-OUT- 2X4 STUDS @ 16" O.C. ON 8" X 36" CONCRETE WALL ON 16" X 8" CONCRETE FOOTING.
3. FOUNDATION DESIGNED FOR 1500 PSF BEARING
4. COLUMN FOOTING 12" THICK W/#4 BARS @ 6" O.C. EACH WAY.
5. BOTTOM OF FOOTING MIN. 36" BELOW FINISHED GRADE.
6. FOUNDATION DIMENSIONS DO NOT ALLOW FOR STONE SHELF

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STELL DOORS NOT LESS THAN 1-3/8" THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1

2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR ANY DWELLING WITH AIR INFILTRATION AT A RATE OF LESS THAN 3 AIR CHANGES PER HOUR (AT ACH50 STANDARD 0 R303.4

3. CARBON MONOXIDE DETECTORS REQUIRED 9 R3150

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK LEDGER ATTACHMENT TO HOUSE SHALL BE PER TABLES 507.2 AND 507.2.1

6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR ROOF DIAPHRAGMS R602.3

7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2

8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND ROOF BEAMS R802.3.1. R802.11

9. INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING UNFINISHED BASEMENTS) N1102.1

10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1

11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102.4.1.2 N1103.2.2

12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G. CAN LIGHTS IN ATTIC) SHALL BE IC- RATED, LEAKAGE- RATED AND SEALED TO THE GYPSUM WALLBOARD N1102.4.4

13.PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1

14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE RATE N1103.2.2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC N1103.2.3

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR M1507.2

18. MAKEUP AIR SYSTEM REQUIRED FOR KITHCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS (UNLESS THE REQUIRED INSULATION AND AIR BARRIER ARE MAINTAINED) IRC M1601.1.1, #7.5

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE M1601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ('UFER' GROUND) CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1

22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11

CONCRETE

Concrete strength shall comply with the following minimum strength requirements at 28 days [IRC R402.2]:

- 2,500 psi for basements floor slabs on undisturbed grade.
- 3,000 psi for footings, foundation walls, and other vertical concrete.
- 3,500 psi for carport and garage floor slabs on undisturbed grade.
- 3,500 psi for structural floor slabs.

Concrete shall be 6% (+/- 1%) air-entrained for garage slabs and for all locations footings, walls or flatwork where exposed to weather. Rebar shall be minimum 40 ksi unless noted otherwise.

4740 NE Jamestown Dr LEE'S SUMMIT, MO

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

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MECHANICAL SYSTEM CODE: SEC.2801
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PAGE 3

PLAN: 4-3-21
HAVEN 3.0

BASEMENT
GARAGE RIGHT

SCALE: 1/4" = 1'-0"

HAVEN 3.0

DRHI
David Richards Homebuilding, Inc.

STATE OF MISSOURI
DAVID PAUL AINSWORTH
NUMBER E-19666
PROFESSIONAL ENGINEER
4-26-21

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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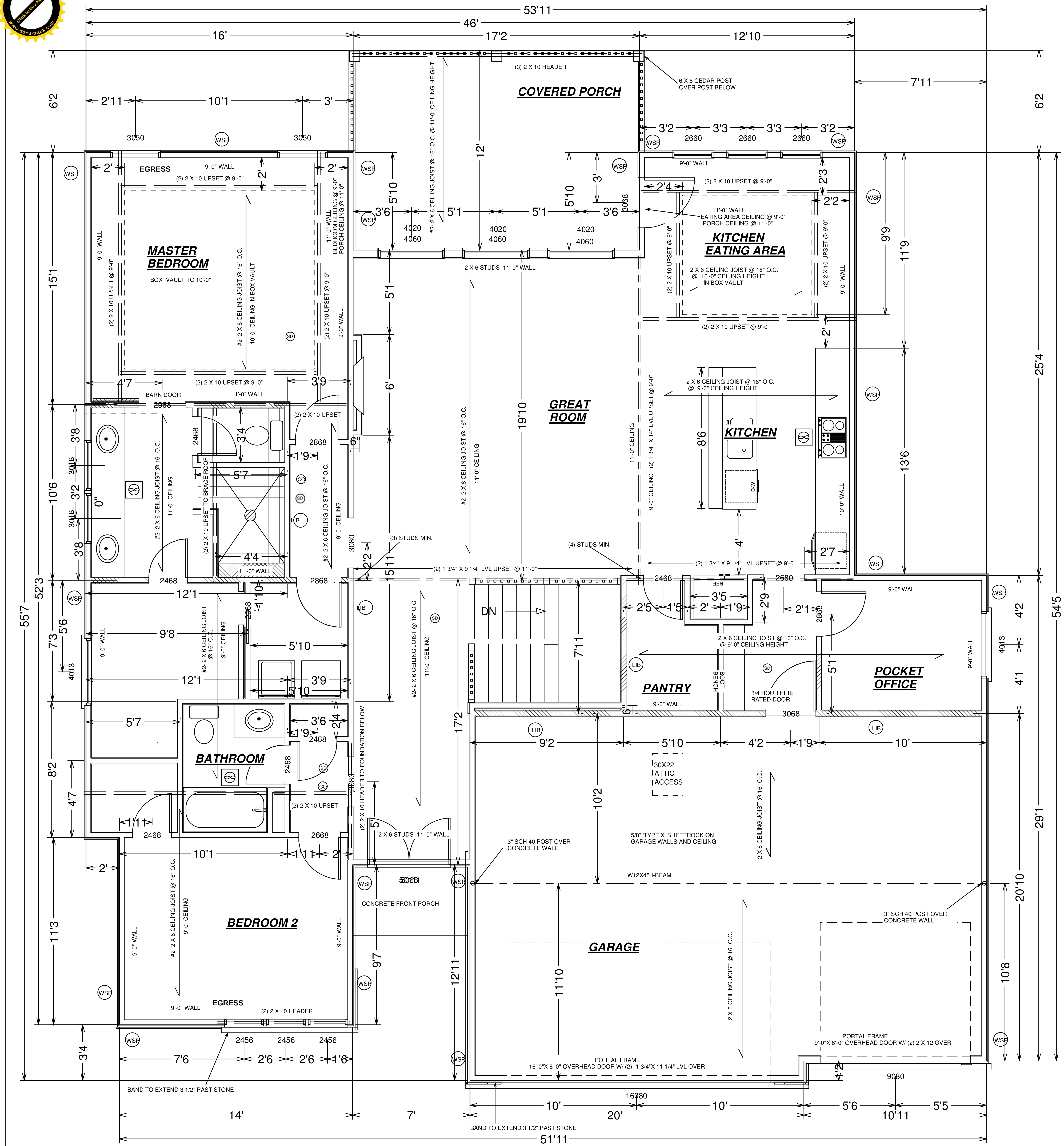
LEE'S SUMMIT, MISSOURI
BY
DATE



1. 2 X 10 FLOOR JOIST AS PER LAYOUT
2. FLOOR LOAD 40 PSF LL = 10 PSF DL
3. ALL BEARING POINTS TO HAVE SOLID BLOCKING TO BEARING BELOW.
4. INTERIOR AND EXTERIOR WALLS TO BE 2X4 STUD GRADE @ 16" O.C.
5. WALLS OVER 10'-0" TO HAVE SOLID BLOCKING @ MIDSPAN OR 9'-0" MAX.
6. EXTERIOR WALL INSULATION TO BE R-13.
7. MULT. HEADERS AND JOIST TO BE GLUED AND NAILED @ 12" O.C. STAGGERED.
8. FLOOR TO BE NAILED AND GLUED PER APA SPEC.
9. 9'-0" WALLS UNLESS NOTED.
10. WINDOW HEADER HEIGHT @ 80" ABOVE SUBFLOOR.
11. ALL INTERIOR DOORS AND OPENINGS 6'-8".

ELECTRICAL:

200 AMP ELECTRICAL SERVICE
COPPER WIRING USED THROUGHOUT

BRANCH CIRCUIT FOR HEATING: CENTRAL HEATING EQUIPMENT OTHER THAN FIXED ELECTRICAL SPACE HEATERS BE SUPPLIED BY AN INDIVIDUAL BRANCH CIRCUIT.

KITCHEN AND DINING RECEPTACLES: A MINIMUM OF TWO 20- AMPERE- RATED BRANCH CIRCUITS SHALL BE PROVIDED TO SERVE RECEPTACLES LOCATED IN KITCHEN, PANTRY, BREAKFAST AREA AND DINING AREA. THE KITCHEN COUNTERTOP RECEPTACLES SHALL BE SERVED BY A MINIMUM OF TWO 20- AMPERE- RATED BRANCH CIRCUITS, EITHER OR BOTH OF WHICH SHALL ALSO BE PERMITTED TO SUPPLY OTHER RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST AREA AND DINING AREA.
EXHAUST FAN BATHROOMS

LAUNDRY CIRCUIT: A MINIMUM OF ONE 20- AMPERE- RATED BRANCH CIRCUIT SHALL BE PROVIDED FOR RECEPTACLE LOCATED IN THE LAUNDRY AREA AND SHALL SERVE ONLY RECEPTACLE OUTLETS LOCATED IN THE LAUNDRY AREA.

BATHROOM BRANCH CIRCUITS: A MINIMUM OF ONE 20- AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM RECEPTACLE OUTLETS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. EXCEPTION: WHERE THE 20- AMPERE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED IN ACCORDANCE WITH SECTION E3602.

NUMBER OF BRANCH CIRCUITS: THE MINIMUM NUMBER OF BRANCH CIRCUITS SHALL BE DETERMINED FROM THE TOTAL COMPUTED LOAD AND THE SIZE OR RATING OF THE CIRCUITS USED. THE NUMBER OF CIRCUITS SHALL BE SUFFICIENT TO SUPPLY THE LOAD SERVED. IN NO CASE SHALL THE LOAD ON ANY CIRCUIT EXCEED THE MAXIMUM SPECIFIED BY SECTION E3602.

BRANCH CIRCUIT LOAD PROPORTIONING: WHERE THE BRANCH- CIRCUIT LOAD IS COMPUTED ON A VOLT- AMPERES- PER- SQUARE- FOOT BASIS, THE WIRING SYSTEM SHALL HAVE THE CAPACITY TO SERVE NOT LESS THAN THE CALCULATED LOAD. THIS LOAD SHALL BE EVENLY PROPORTIONED AMONG MULTIOUTLETS BRANCH CIRCUITS.

CIRCUIT CONDUCTORS: ALL CONDUCTORS OF A CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTORS, SHALL BE CONTAINED IN THE SAME RACEWAY, TRENCH, CABLE OR CORD.

BATHROOM EXHAUST FAN:

SMOKE/CARBON MONOXIDE DETECTOR ON PLAN AND AS REOUIRED BY CODE

SD

BWL BRACED WALL LINE

WSP METHOD 3 (7/16 APA) W/ BRACE LENGTH

LIB LET IN BRACE

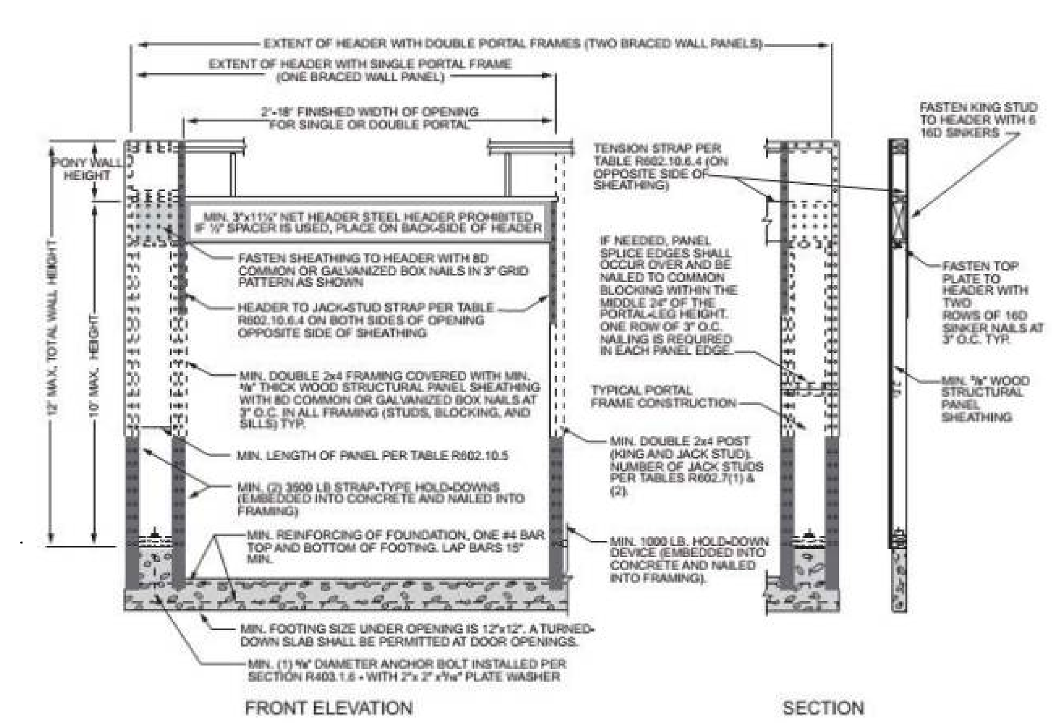
State of Missouri — David Paul Ainsworth — Number E-16860 — Professional Engineer
4-26-21

TABLE N1102.1(1) ALTERNATE INSULATION VALUES			
CEILING R-VALUE	R-49	EXTERIOR WALL	R-13
CATHEDRAL CEILING R-VALUE	R-30	CRAWL SPACE WALL	R-19
FLOOR OVER UNHEATED SPACE	R-19	GLAZING	< 0.40
FLOOR OVER OUTSIDE AIR	R-30	N/A	
DUCTS OUTSIDE OF THE CONDITIONED SPACE	SUPPLY AND RETURN R-8 IN FLOOR AND CEILING ASSEMBLY R-6		
BASEMENT WALL	R-13 INSULATION CONCRETE WALLS ADJACENT TO FINISHED SPACE		
ON GRADE TRENCH FOOTING	R-10, R-15 FOR HEATED SLAB		

THE BUILDING THERMAL ENVELOPE WILL BE SEALED

RECESSED CAN LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES

HVAC DUCTS TO BE SEALED



2018 IRC PFH DETAIL

4740 NE Jamestown Dr LEE'S SUMMIT, MO

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PAGE 4

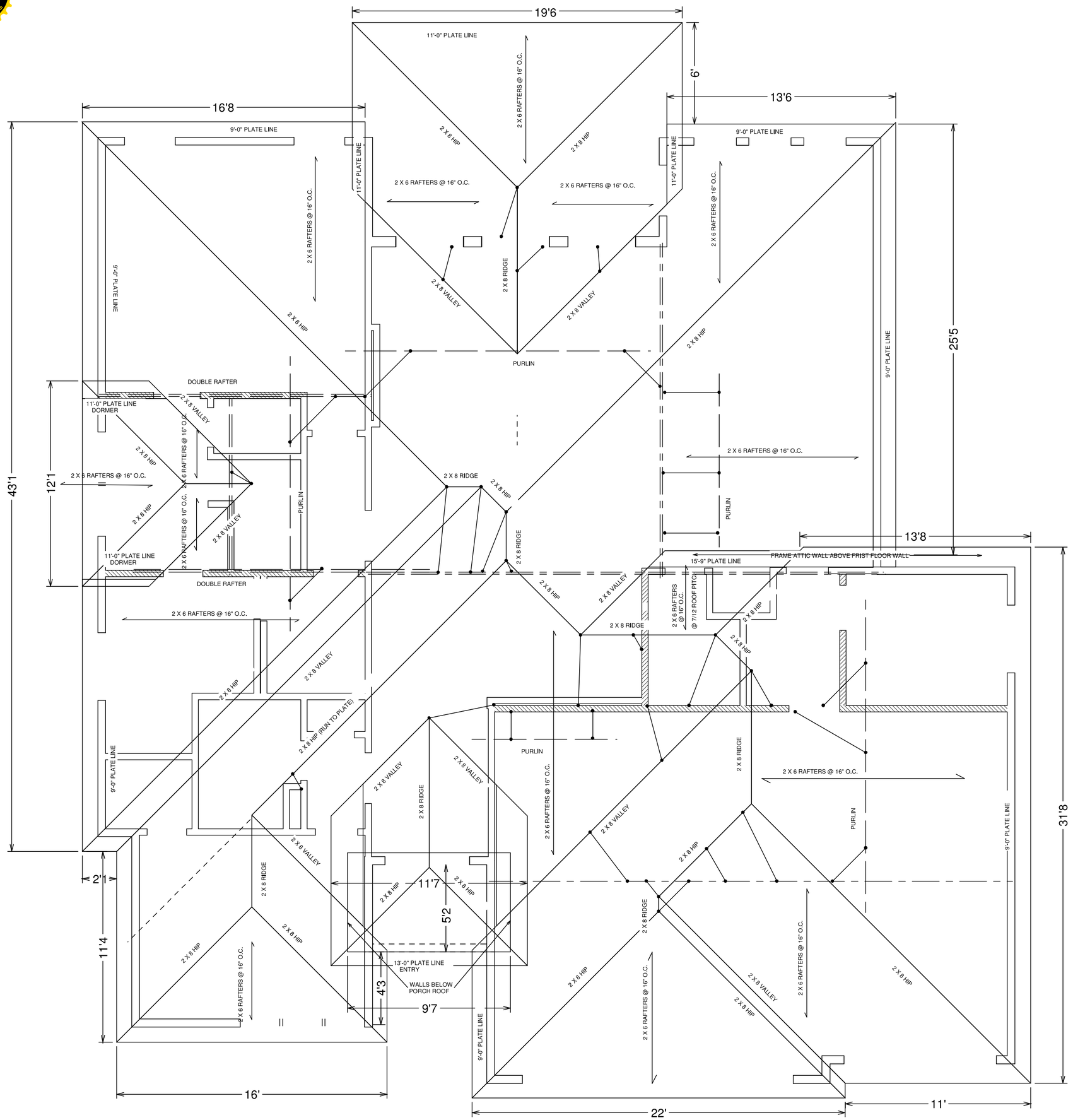
PLAN: 4-3-21 HAVEN 3.0

FIRST FLOOR GARAGE RIGHT

SCALE: 1/4" = 1'-0"

HAVEN 3.0

DRHI Richards Homebuilding, Inc.



ROOF
- ROOF PITCHES 6/12
- 12" SOFFITS
- 8" FASCIA
- 6" RAKES
- FLASH & COUNTERFLASH ALL ROOF PENETRATIONS AND INTERSECTIONS

COMPOSITION SHINGLE ROOFING

RAFTERS & CEILING JOIST
- COLLAR TIES AT UPPER THIRD POINT 48" O.C. 2 X 4 MIN.
- CEILING JOIST ARE TURNED AS REQUIRED FOR RAFTER TIES

ATTIC VENTILATION
- VENT EACH ENCLOSED ATTIC SPACE
- NET AREA OPENING = 1/150TH OF VENTED AREA

UNLESS NOTED:
- RAFTERS ARE #2 2 X 6 DF/L @ 16" O.C.
- MAX. SPAN 14'-2"
- PROVIDE FULL RAFTER HEEL SUPPORT AT HIPS, VALLEYS, & RIDGES
- LET-IN SUPPORT LEG TO PURLIN
- ALL HIPS, VALLEYS & RIDGES ARE SIZED FOR THE RAFTER DEPTH, PITCH, AND LOAD

TILE

PURLIN	LEG CC
2 X 6	---------
2 X 8	6'-4"
2 X 10 #3	-------
2 X 1O #2	8'-0"

TILE

SUPPORT LEG	MAX. LENGTH
2 X 4 W/ 2 X 4 T-BRACE	7'-11"
2 X 6 W/ 2 X 4 T-BRACE	8'-3"
2 X 6 W/ 2 X 6 T-BRACE	14'-10"
2 X 8 W/ 2 X 4 T-BRACE	8'-6"
2 X 8 W/ 2 X 6 T-BRACE	15'-0"

HEEL JOINT CONNECTION FACTOR

Hc/Hr	
1/3	1.5
1/4	1.33
1/5	1.25
1/6	1.2
1/10 OR LESS	1.11

* ALL ROOF FRAMING MEMBERS ARE SIZED AS BEAMS AND TO LBW's HEADERS OR OTHER STRUCTURE

Hc = HEIGHT OF CEILING JOIST OR RAFTER TIES MEASURED VERTICALLY ABOVE TOP OF RAFTER SUPPORT WALL

Hr= HEIGHT OF ROOF RIDGE MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALLS

STATE OF MISSOURI
DAVID PAUL AINSWORTH
NUMBER E-19859
PROFESSIONAL ENGINEER
4-26-21

4740 NE Jamestown Dr LEE'S SUMMIT, MO

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PLAN: 4-3-21 HAVEN 3.0

ROOF
GARAGE RIGHT

SCALE: 1/4" = 1'-0"

HAVEN 3.0

DRAFT

Van Richards Homebuilding, Inc.

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI

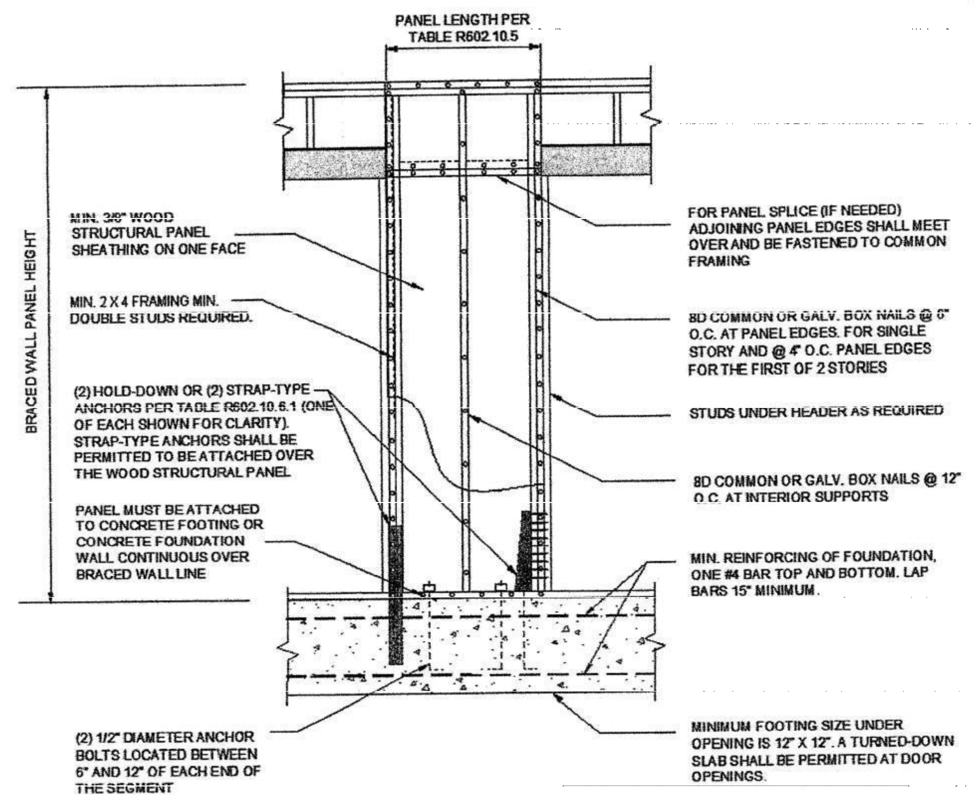
BY _____

DATE _____

TABLE R602.10.3(1)
BRACING REQUIREMENTS BASED ON WIND SPEED

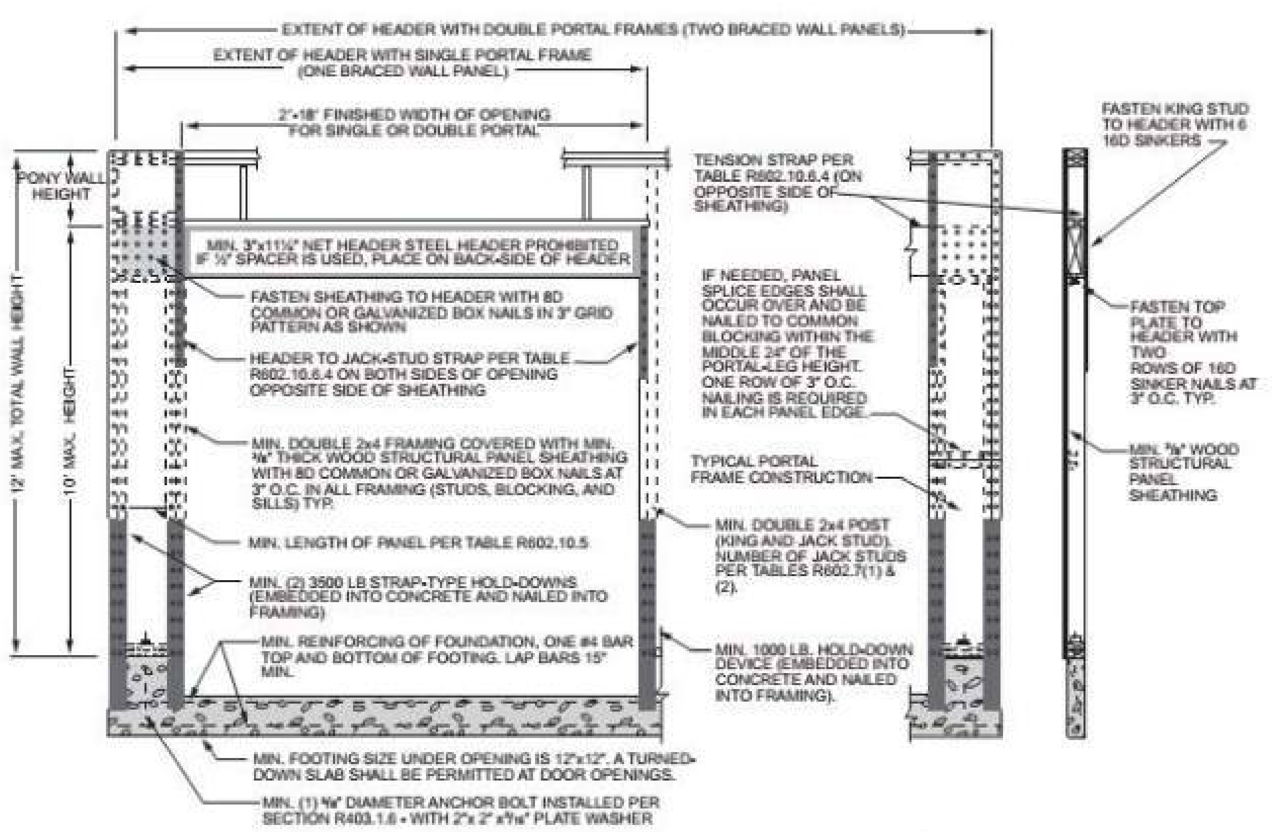
- EXPOSURE CATEGORY B
- 30 FOOT MEAN ROOF HEIGHT
- 10 FOOT EAVE-TO-RIDGE HEIGHT
- 10 FOOT WALL HEIGHT
- 2 BRACED WALL LINES

Basic Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE[a]			
			Method LIB[b]	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, CS-SFB[c]	Methods CS-WSP, CS-G, CS-PF
≤ 90		10	3.5	3.5	2.0	2.0
		20	7.0	7.0	4.0	3.5
		30	9.5	9.5	5.5	5.0
		40	12.5	12.5	7.5	6.0
		50	15.5	15.5	9.0	7.5
		60	18.5	18.5	10.5	9.0
		10	7.0	7.0	4.0	3.5
		20	13.0	13.0	7.5	6.5
		30	18.5	18.5	10.5	9.0
		40	24.0	24.0	14.0	12.0
		50	29.5	29.5	17.0	14.5
		60	35.0	35.0	20.0	17.0
		10	NP	10.5	6.0	5.0
		20	NP	19.0	11.0	9.5
		30	NP	27.5	15.5	13.5
		40	NP	35.5	20.5	17.5
		50	NP	44.0	25.0	21.5
		60	NP	52.0	30.0	25.5



For SI: 1 inch = 25.4 mm.

FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL



2018 IRC PFH DETAIL

TABLE R602.10.4
BRACING METHODS

	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA[a] Fasteners	Spacing
Intermittent Bracing Method	**LIB** Let-in-bracing	1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16″ stud spacing		Wood: 2-8d common nails or 3-8d (2½″ long x 0.113″ dia.) nails	Wood: per stud and top and bottom plates
				Metal strap: per manufacturer	Metal: per manufacturer
	DWB Diagonal wood boards	¾″(1″ nominal) for maximum 24″ stud spacing		2-8d (2½″ long × 0.113″ dia.) nails or 2 - 1¾″ long staples	Per stud
	WSP Wood structural panel (See Section R604)	⅜″		Exterior sheathing per Table R602.3(3)	6″ edges 12″ field
				Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	BV-WSP[e] Wood Structural Panels with Stone or Masonry Veneer (See Section R602.10.6.5)	$^{7}/_{16}$″	See Figure R602.10.6.5	8d common (2½″ × 0.131) nails	4″ at panel edges 12″ at intermediate supports 4″ at braced wall panel end posts
	SFB Structural fiberboard sheathing	½″ or $^{25}/_{32}$″ for maximum 16″ stud spacing		1½″ long × 0.12″ dia. (for ½″ thick sheathing) 1¾″ long × 0.12″ dia. (for $^{25}/_{32}$″ thick sheathing) galvanized roofing nails or 8d common (2½″ long × 0.131″ dia.) nails	3″ edges 6″ field
	GB Gypsum board	½″		Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7″ edges (including top and bottom plates) 7″ field
				Nails or screws per Table R702.3.5 for interior locations	
	PBS Particleboard sheathing (See Section R605)	⅜″ or ½″ for maximum 16″ stud spacing		For ⅜″, 6d common (2″ long × 0.113″ dia.) nails For ½″, 8d common (2½″ long × 0.131″ dia.) nails	3″ edges 6″ field
	PCP Portland cement plaster	See Section R703.6 for maximum 16″ stud spacing		1½″ long, 11 gage, $^{7}/_{16}$″ dia. head nails or ⅞″ long, 16 gage staples	6″ o.c. on all framing members
	HPS Hardboard panel siding	$^{7}/_{16}$″ for maximum 16″ stud spacing		0.092″ dia., 0.225″ dia. head nails with length to accommodate 1½″ penetration into studs	4″ edges 8″ field
	ABW Alternate braced wall	⅜″		See Section R602.10.6.1	See Section R602.10.6.1

(continued)

TABLE R602.10.4—continued
BRACING METHODS

	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA[a] Fasteners	Spacing
Intermittent Bracing Methods	**PFH** Portal frame with hold-downs	⅜″		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage	$^{7}/_{16}$″		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	**CS-WSP** Continuously sheathed wood structural panel	⅜″		Exterior sheathing per Table R602.3(3)	6″ edges 12″ field
				Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	CS-G[b, c] Continuously sheathed wood structural panel adjacent to garage openings	⅜″		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	$^{7}/_{16}$″		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB[d] Continuously sheathed structural fiberboard	½″ or $^{25}/_{32}$″ for maximum 16" stud spacing		1½″ long × 0.12″ dia. (for ½″ thick sheathing) 1¾″ long × 0.12″ dia. (for $^{25}/_{32}$″ thick sheathing) galvanized roofing nails or 8d common (2½″ long × 0.131″ dia.) nails	3″ edges 6″ field

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m^2, 1 mile per hour = 0.447 m/s.

a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D_0, D_1 and D_2.

b. Applies to panels next to garage door opening when supporting gable end wall or roof load only. May only be used on one wall of the garage. In Seismic Design Categories D_0, D_1 and D_2 roof covering dead load may not exceed 3 psf.

c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(1). A full height clear opening shall not be permitted adjacent to a Method CS-G panel.

d. Method CS-SFB does not apply in Seismic Design Categories D_0, D_1 and D_2 and in areas where the wind speed exceeds 100 mph.

TABLE R602.10.5
MINIMUM LENGTH OF BRACED WALL PANELS

METHOD (See Table R602.10.4)		MINIMUM LENGTH[a] (inches) Wall Height 8 feet	9 feet	10 feet	11 feet	12 feet	CONTRIBUTING LENGTH (inches)
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP		48	48	48	53	58	Actual[b]
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
LIB		55	62	69	NP	NP	Actual[b]
ABW	SDC A, B and C, wind speed < 110 mph	28	32	34	38	42	48
	SDC D_0, D_1 and D_2, wind speed < 110 mph	32	32	34	NP	NP	
PFH	Supporting roof only	16	16	16	18[c]	20[c]	48
	Supporting one story and roof	24	24	24	27[c]	29[c]	48
PFG		24	27	30	33[d]	36[d]	1.5 × Actual[b]
CS-G		24	27	30	33	36	Actual[b]
CS-PF		16	18	20	22[e]	24[e]	Actual[b]
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						Actual[b]
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100	—	44	40	38	38	
	104	—	49	43	40	39	
	108	—	54	46	43	41	
	112	—	—	50	45	43	
	116	—	—	55	48	45	
	120	—	—	60	52	48	
	124	—	—	—	56	51	
	128	—	—	—	61	54	
	132	—	—	—	66	58	
	136	—	—	—	—	62	
	140	—	—	—	—	66	
	144	—	—	—	—	72	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

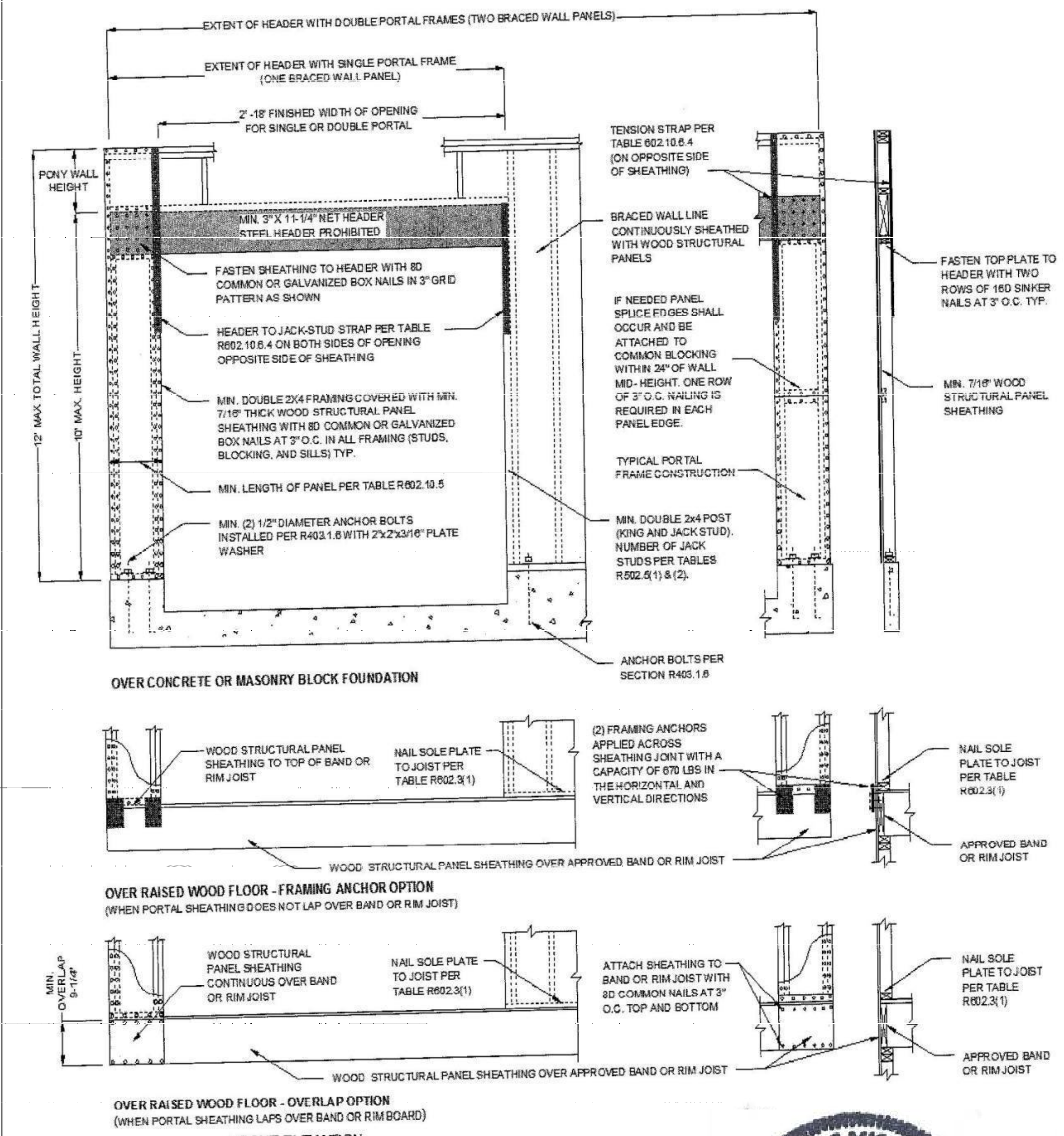
NP = Not Permitted.

a. Linear interpolation shall be permitted.

b. Use the actual length when it is greater than or equal to the minimum length.

c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height may be increased to 12 feet with pony wall.

d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall.



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME

STATE OF MISSOURI — DAVID PAUL AINSWORTH — NUMBER E-[illegible] — PROFESSIONAL ENGINEER

4-26-21

4740 NE Jamestown Dr.
Lee's Summit, MO

To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and a changes made on them after prints are made will be done the owner's and / or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. The maker of these plans is not an architect or engineer is not liable for errors once construction has beg While every effort has been made in the preparation of th plan to avoid mistakes, the maker can not guarantee agai human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter.

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

ELECTRICAL SYSTEM CODE: SEC.2701
MECHANICAL SYSTEM CODE: SEC.2801
PLUMBING SYSTEM CODE: SEC.2901

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PLAN: 4-3-21 HAVEN 3.0

WALL BRACING DETAILS

SCALE: 1/4" = 1'-0"

HAVEN 3.0

DRHI
Dave Richards Homebuilding, Inc.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI
BY____________________
DATE__________________